

TIKHONOV, A.F., kandidat tekhnicheskikh nauk; APANOVICH, A.M.; MARTYHOVSKIY,
Ye.I.; KOMAROV, Yu.M.; TRUKHANOVA, A., tekhnicheskiy redaktor

[Progressive lumbering methods] Peredovye metody truda na les-
sagotovkakh. Pod obshchey red. A.F.Tikhonova. Minsk, Gos. izd-vo
BSER, 1956. 111 p. (MLRA 9:11)
(Lumbering)

APANOVICH, A.M., inzhener; MARTINOVSKIY, Ye.I., inzhener; SHRAYER, M.D.,
inzhener; CHERNYAK, I., redaktor; TRUKHANOVA, A., tekhnicheskiy
redaktor

[We are taking full advantage of the new equipment; experience of
leading lumbering enterprises in White Russia] Proizvoditel'no
ispol'suem novuyu tekhniku; iz opyta peredovykh lesosagotovitel'-
nykh predpriyatii BSSR. Minsk, Gos.isd-vo BSSR, 1957. 51 p.

(MIRA 10:8)

1. Nauchno-tekhnicheskoye obshchestvo lesnoy promyshlennosti.
Belorusskoye respublikanskoye pravleniye
(White Russia--Lumbering)

APANOVICH, G.

Creative activity. Mashinostroitel' no.11:4-5 N '62.
(Winding machines) (MIRA 15:12)

8 (3)

SOV/112-57-5-10216

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 92 (USSR)

AUTHOR: Apanovich, G. G., Konshin, V. M.

TITLE: Device for Twisting Bus Conductors by 90°
(Prisposobleniye dlya skruchivaniya shinnoy medi na 90°)

PERIODICAL: Inform.-tekhn. sb. M-vo elektrotekhn. prom-sti SSSR, 1955,
Nr 82, pp 10-11

ABSTRACT: A drawing and description are supplied of a device for twisting bus conductors 90°, as used at Moskovskiy transformatornyy zavod (Moscow Transformer Plant). The manual device permits twisting buses sized 25 x 4.4 mm to 60 x 5 mm; the latter size requires preliminary heating. A detachable jaw and tap wrench assembly is provided for each size bus conductor.

I. Ya. B.

Card 1/1

REZNIK, B.Ye., kand.med.nauk; APANOVICH, L.M., TETERYATNIK, Ye.A.

Clinical characteristics of central nervous system lesions in
influenza in children. *Pediatrics* 39 no.4:41-48 Apr '61.

(MIRA 14:4)

1. Iz kafedry detskikh infektsii (zav. - dotsent O.I. Roze)
Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.
Ganichkin) i oblastnoy klinicheskoy bol'nitsy imeni M.I.
Kalinina (glavnyy vrach - kand.med.nauk B.A. Shaporenko).
(INFLUENZA) (NERVOUS SYSTEM—DISEASES)

REZNIK, B.Ya. [Reznik, B.IA.], kand.med.nauk; ZHIVOTOVSKAYA, S.Ya.
[Zhyvotovs'ka, S.Ia.]; APANOVICH, L.M.

Clinical characteristics of influenza in children. Ped., akush.
i gin. 22 no.4:5-8 '60. (MIRA 14:5)

1. Klinika detskikh infektsionnykh bolezney (ispolnyayushchiy
obyazannosti zaveduyushchego kafedroy - B.Ya.Reznik) Stalinskogo
meditsinskogo instituta (direktor - dotsent A.M.Ganichkin [Fanichkin,
A.M.]) na baze Stalinskoy oblastnoy klinicheskoy bol'nitsy im. M.I.
Kalinina (glavnyy vrach - B.O.Shaparenko).
(INFLUENZA)

2/10/75/000/04/030/020
8031/1613

Author: Zelutskii, V.E.

Title: The Scientific-Technical Conference at Khabarovsk Aviation Institute

Periodical: Izvestiya Vsesoyuznogo nauchnoykh aviatsionnogo tekhniko, 1959, No 5, pp 161-165 (USSR)

Abstract: In May 1959, the 16th Conference of Professorial and Teaching Staff took place.

Strength of Aircraft Section
On the Theory of Bending of Thin-Walled Columns" by
Borisov, Candidate of Technical Sciences (L.V. Borisov);
"The Simulation of Static Experiments on Thin-Walled

Columns" by Candidate of Technical Sciences
L.V. Borisov; "The Influence of the Rigidity of Ribs and Beams on
their Bending" by Assistant E.A. Sholomov; "The
Calculation of the Bending of Elastic Plates by
the Discrete Method" by Assistant G.P. Kuznetsov;
"The Calculation of Cylindrical Shells by the Method
of Stochastic Variables" by Assistant E.K. Gurev;
"The Construction Technology Section

from the Choice of a Scheme for a Hydraulic Servo-System
for the Automation of Flight Procedures" by Assistant
V.V. Malozemov; "The Investigation of the Properties of
Polymers by an Abrasive Belt" by Senior Instructor.

Candidate of Technical Sciences V.V. Voronov; "The
Investigation of the Operation of a Pneumatic
Hydraulic Plant" by Assistant V.V. Gulyaev

"A Static Analysis and Calculation of the Accuracy of
the Technological Processes of Machining" by
O.M. Kuznetsov; "The Automatic Welding of Long Panels"

by Candidate of Technical Sciences L.P. Kozlov;
"Prospects in the Use of Specialized Computers for the
Determination of the Optimum Geometry of Cylindrical Tools"

by Senior Instructor E.A. Sholomov; "The Spreading of the Experiments of
Technical Researches in Machine Construction"

by Senior Instructor E.A. Sholomov; "Features of
Measurable Abrasion of a Cutting Tool in Fine Sharpening"

by Assistant V.V. Malozemov; "An Investigation of the
Process of Compression at High Velocities of
Deformation" by Senior Instructor V.V. Voronov; "The Standardization of Vibration Effects"

on the Human Organism in Aircraft Production" by Senior
Instructor V.V. Malozemov;
Theoretical Section

Investigation of the Flow of Air in the Inlet and Outlet Valves of a
Turbine by Instructor, Candidate of Technical Sciences
V.V. Borisov; "The Variation in the Temperature of
Air in the Turbine" by Assistant E.A. Sholomov; "On the
Model Clearance" by Assistant A.V. Kuznetsov; "On the
Problem of Non-Stationary Heat Transfer" by Assistant
E.A. Sholomov; "The Influence of an Electric Field on
the Process of a Burner" by Senior Instructor E.A. Sholomov;

"Calculation of the Temperature Compensation of
Capacitive Pressure Pick-Ups" by Assistant E.A. Sholomov;
Aerodynamic Section

"The Control of the Boundary Layer of a
Thin Wing" by Senior Instructor E.A. Sholomov; "The
Investigation of the Flow of Air in the Inlet and Outlet
Valves of a Turbine" by Assistant E.A. Sholomov; "The
Investigation of the Flow of Air in the Inlet and Outlet
Valves of a Turbine" by Assistant E.A. Sholomov; "The
Investigation of the Flow of Air in the Inlet and Outlet
Valves of a Turbine" by Assistant E.A. Sholomov;

"The Aerodynamic Investigation of Thin-Walled
Small Reynolds Numbers" by Senior Instructor E.A. Sholomov;

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Card 7/11

APANOVICH, Mikhail Mikhaylovich; KUZNETSOV, B.R., insh., retsenzent;
PETRUSHKEV, I.M., insh., red.; TKACHUN, A.I., red.isd-va;
SMIRNOVA, G.V., tekhn.red.

[Planning organizational and technical arrangements in machinery
plants] Planirovanie organizatsionno-tekhnicheskikh meropriyatii
na mashinostroitel'nom zavode. Moskva, Gos.nauchno-tekhn.isd-vo
mashinostroit.lit-ry, 1960. 99 p. (MIRA 14:3)
(Machinery industry)

APANOVICH, M.M.

Special features of the dissemination of innovators' practice
in machinery manufacturing. Trudy KhPI 22 no.2:103-116 '89.
(MIRA 15:9)

(Kharkov—Machinery industry—Technological innovations)

АПАНОВИЧ, Н.О.

SHAVERDOV, Yu.Sh.; APANOVICH, N.O., inzh.

Improved electric wiring system used for automatic control of diesel locomotives. Elek. i tepl. tiaga 2 no.2:16-18 F '59. (MIRA 11:4)

1. Glavnyy inzhener depo Gudermas Ordzhonikidzevskoy dorogi.
(Diesel locomotives)

APAKOVICH, N.G., inst.

Regulating the angle of advance of the feeder of diesel locomotive.
Sbor. LIIZHT no.168:205-208 '60. (MIRA 13:10)
(Diesel locomotives--Fuel systems)

APANOVICH, N. G.

Cand Tech Sci - (diss) "Study of several opportunities for increasing the economy of locomotives with electric transmission." Moscow, 1961. 15 pp; (Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers imeni I. V. Stalin); 140 copies; price not given; (KL, 6-61 sup, 213)

S/262/62/000/012/009/013
1007/1207

AUTHOR: Yevenko, V. I., Soroko, M. I., Apanovich, N. G.

TITLE: Methods of increasing the economic efficiency of free-piston gas turbine units under partial load

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 12, 1962, 91, abstract 42.12.607. "Collection Tr. Bryansk. in-t transp. mashinostr.", no. 20, 1961, 67-85

TEXT: An economically efficient and simple method to widen the common range of operation of a combined gas turbine and free piston gas-generator plant is to separate the inlet of gas from each free piston unit to a definite nozzle group of the regulating stage of the turbine. When several free piston units are feeding a single intake manifold, the common range of operation of the free piston unit and the gas turbine can be widened by varying (in steps) the dead clearances (space) in the compressor cylinders of the free piston unit through the connection of additional space. Such a method has a definite thermodynamical advantage as compared with the recirculation of the scavenging air. The performance of the whole plant may also be improved by varying the flow sections in the nozzles of the turbine stages.

[Abstracter's note: Complete translation.]

Card 1/1

YEVENKO, V.I., kand.tekhn.nauk; SOROKO, M.I., kand.tekhn.nauk; APANOVICH,
N.G., inzh.

Ways of improving the economic indices of gas-turbine units with
free-piston gas generators in case of partial power output.
Sbor.trud.BITM no.20:67-85 '61. (MIRA 15:3)
(Gas turbines)

APANOVICH, N.G., inzh.

Improving the dynamic characteristics of the regulating system
of the diesel generator unit of a diesel locomotive. Sbor.-
trud.BITM no.20:107-114 '61. (MIRA 15:3)
(Diesel locomotives) (Governors (Machinery))

AFANOVICH, S., ikhtiolog

Information bureau of young naturalists. IUn.nat. no.3:19 Mr '63.
(MIRA 16:4)

(Floriculture)

(Aquariums)

SOV/86-58-9-21/42

AUTHOR: Apanovich, V. N., Capt, Military Navigator First Class

TITLE: How to Reduce Cloud Breaking Time (Kak sokratit' vrem-
ya probivaniya oblakov)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 9, pp 37-41
(USSR)

ABSTRACT: The author deals with the problem of how to reduce
the time of executing a landing pattern, when a single air-
craft, or a formation of aircraft, has to descend through
clouds prior to landing. Four diagrams.

Card 1/1

APANOVICH, Yu.G.; LIPSON, E.A.; ANGELOPULO, O.K.; ANDRESON, B.A.

Drilling the Aralsor well in the interval 0--5701 m. Neft. khoz.
43 no.1:23-28 Ja '65. (MIRA 18:3)

POPOVIN, V.S.; APANOVICH, Yu.O.

Drilling the Aralsor well. Razved. i okh. nedr 29 no.5:56
My '63. (MIRA 16:7)

1. Gosudarstvennyy geologicheskii komitet SSSR (for Popovin).
2. Nachal'nik Aralsorskoy ekspeditsii (for Apanovich).
(Caspian lowland—Boring)

APANOVICH, Yu.G.; LIPSON, E.A.; KHAKHAYEV, B.B.; TARNAVSKIY, A.P.;
NOVIKOV, V.T.; KURUS, I.I.

Accident elimination in the Aralsor super-deep well. Razved. i
okh. nedr 30 no.7:48-50 J1 '64. (MIRA 17:12)

1. Aralsorskaya ekspeditsiya sverkhglubokogo bureniya (for Apanovich, Lipson).
2. Trest "Ural'skneftegazrazvedka" (for Khakhayev, Tarnavskiy).
3. Gosudarstvennyy geologicheskii komitet SSSR (for Novikov).
4. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftokhimicheskoy i gazovoy promyshlennosti im. akad. Gubkina (for Kurus).

APANOVICH, Yu.G.; VEDISHCHEV, I.V.; PANYUSHEVSKIY, V.S.; LIFOVETSKIY, A.Ya.;
LIPSON, E.A.; TOLSTYKH, I.F.; KHAKHAYEV, B.N.; TARNAVSKIY, A.P.

Cementing and lowering the second intermediate string-liner into
the deep Aral-Sor well No.1. Burenie no.2:26-27 '65.

(MIRA 18:5)

1. Trest "Ural'skneftegazrazvedka" i Moskovskiy ordena Trudovogo
Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlen-
nosti im. akademika Gubkina.

KHAKHAYEV, B.N.; TARRAVSKIY, A.P.; AFANOVICH, Yu.G.; TOVMA, G.V.;
LIPSON, E.A.; RAKHMATULLIN, T.K.

Using fishing instruments for metal in the Ural Gas and Oil
Prospecting Trust. Burenie no.6:4-7 '64. (MIRA 18:5

1. Trest "Ural'skneftegazrazvedka" i Aral-Sorskaya ekspeditsiya
glubokogo bureniya.

AKCHURIN, R.Kh.; APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.;
SHATOV, N.I.; SHCHEGOLEV, D.M. [deceased]

Two-mirror solar stand of the Power Engineering Institute.
Gellotekhnika no.5:5-10 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy
institut imeni G.M. Khrushchevskogo. Submitted December 1,
1965.

APARISI, R.R.; KOLOS, Ya.G.; TEPLYAKOV, D.I.

Calorimetric studies of high-temperature solar engineering units.
Geliotekhnika no.6:25-31 '65. (MIRA 19:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy
institut imeni Khrizhchanovskogo.

ACCESSION NR AP4043584

determined the extractive behavior of the compound in the presence of water.

SUBMITTED 04Nov63

ENCLOSURE

SUB CODE GC

NO REF SOV 004

OTHER 000

Card 2/2

APARIN, A.F., Inzhener.

Estimates and costs of completed building construction work. Stroi.
prom. 31 no.11:20-23 N '53.

(MLBA 6:12)

(Building--Estimates)

AFARIN, A. I. I. PRIST, A. I. I.

The Method of Electron Microscopy in Biology, Vestnik Akademii Nauk S.S.S.R., 1951, No. 6, pp 64-70.

Institute of Microbiology, U.S.S.R. Academy of Sciences, Central State Scientific Controlling Institute imeni Tarasevich, Moscow.

HEARIN, W. H.

Dec 1956

see 12 C

measuring instruments

APARIN, G.P.

Effect of penicillin injections on the production of leptospiral
antibodies in rabbits. Tes. i dokl. konf. Irk. gos. nauchn.-issl.
protivozhum. inst. no. 2:6-7 '57. (MIRA 11:3)
(PENICILLIN) (LEPTOSPIROSIS)
(ANTIGENS AND ANTIBODIES)

USSR / Microbiology. Microbes, Pathogenic to Man and
Animals. Bacteria. Pasteurellae.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19563

Author : Timofeyeva, L. A.; Aparin, G. P.;
Golovacheva, V. Ya.

Inst : Irkutsk Scientific-Research Antiplague
Institute of Siberia and the Far East

Title : Once Again About Chromatic Differential
Medium

Orig Pub : Izv. Irkutskogo n.-i. protivochumn. in-ta
Sibiri i Dal'n. Vost., 1957, 15, 123-125

Abstract : For the differentiation of pseudotuberculosis
and the plague causal agents, a culture
medium is proposed, which consists of glucose,
lactose and urea with complex Andrade's
indicator and bromothymol blue. The analysis

Card 1/2

USSR / Microbiology. Microbes, Pathogenic to Man and
Animals. Bacteria. Pasteurellae.

F

Abu Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19563

of this medium in 256 museum strains of *B. pestis* and 69 strains of *B. pseudotuberculosis* showed that 255 of the first and 67 of the second produced clear, differentially-diagnostic results. Two strains of the *pseudotuberculosis* and one strain of the plague causal agents, which behaved atypically in the proposed medium, appeared to be somewhat modified old strains. The authors recommend the proposed medium be applied in all antiplague institutions. --
G. Ye. Frumkina

Card 2/2

APARIN, G.P.

Influence of malachite green on the growth of the causative
agents of plague, pseudotuberculosis, and some other microbes.
Izv. Irk. gos. nauch.-issl. protivochum. inst. 18:3-7 '58.

(MIRA 13:7)

(MALACHITE GREEN--PHYSIOLOGICAL EFFECT)
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)
(COMMUNICABLE DISEASES)

TIMOFEYEVA, L.A.; GOLOVACHEVA, V.Ya.; APARIN, G.P.

Characteristics of some bacillary infections of rodents in the steppe of Transbaikalia. From "Materialy po gryzunam", No.5, 1957. By A.M.Klimenko, O.I.Klimenko. Reviewed by L.A. Timofeeva, V.IA.Golobacheva, G.P.Aparin. Izv.Irk.gos.nauch.-issl.protivochum.inst. 19:164-165 '58. (MIRA 13:7)
(Transbaikalia--Rodentia--Diseases)
(Klimenko, A.M.) (Klimenko, O.I.)

APARIN, G.P.; TERESHCHENKO, I.F.

Age-related susceptibility of guinea pigs and white mice to
experimental plague infection. Izv. Irk. gos. nauch.-issl.
protivochum. inst. 21:98-107 '59. (MIRA 14:1)
(RODENTIA--DISEASES) (PLAGUE)

DOMARADSKIY, I.V.; VASIL'YEVA, Z.I.; APARIN, G.P.,

Antifermentative action of antiplague sera. Izv. Irk. gos. nauch.-
issl. protivochum. inst. 21:122-127 '59. (MIRA 14:1)
(SERUM) (PLAGUE)

APARIN, G.P.

Mixed infections in plague. Izv. Irk. gos. nauch.-issl. protivochum.
inst. 21:178-180 '59. (MIRA 13:12)

(PLAGUE)

DOMARADSKIY, I.V.; VASIL'YEVA, Z.I.; APARIN, G.P.

Antienzyme activity of antirabies sera; author's abstract. Zhur.
mikrobiol., epid. i immun. 30 no.11:111-112 N '59. (MIRA 13:3)

1. Iz Irkutskogo protivochumnogo instituta.
(RABIES) (ENZYMES)

APARIN, V.Ye.

Influence of the pursuit of physical exercises on middle
and elderly persons. Trudy Vor. med. inst. 47:120-122 '62
(MIRA 16:12)

1. Kafedra fizicheskogo vospitaniya, lechetnoy fizkul'tury
i vrachebnogo kontrolya Voronezhskogo meditsinskogo institu-
ta.

VAYNSHTEYN, B.S., kand. ekon. nauk; LEYKINA, K.B.; MINTS, M.G.;
 LUCHINSKIY, S.M.; KIYEVSKIY, V.G., kand. ekon. nauk;
 VINER, ~~CHAY-BENIAURISVILLI, I.Y.~~; GUREVICH, M.S.;
 ZIKEYEV, B.V., kand. tekhn. nauk; RUBINOV, ~~M.S.~~; SARYCHEV, V.S.,
 kand. tekhn. nauk; APARIN, I.L.; KRINITSKAYA, M.Ye.; DZIKOVSKIY, G.I.;
 ZEL'TSER, R.Ya.; GOL'DENBERG, I.L.; ISAKOVSKIY, I.G.; DEMIDOVA, S.N.,
 kand. ekon. nauk; ~~CHAY-BENIAURISVILLI, I.Y.~~

[Economic efficiency of capital investments and the
 introduction of new equipment in construction] Ekonomicheskaia
 effektivnost' kapital'nykh vlozhenii i vnedreniia
 novoi tekhniki v stroitel'stve. Moskva, Stroiizdat, 1965.
 235 p. (MIRA 18:8)

1. Moscow. Nauchno-issledovatel'skiy institut ekonomiki
 stroitel'stva. 2. Rukovoditel' sektora ekonomicheskoy
 effektivnosti novoy tekhniki Nauchno-issledovatel'skogo
 instituta ekonomiki stroitel'stva, Moskva (for Kiyevskiy).
3. Sektor ekonomicheskoy effektivnosti novoy tekhniki
 Nauchno-issledovatel'skogo instituta ekonomiki stroitel'-
 stva, Moskva (for all except Demidova). 4. Nauchno-issledo-
 vatel'skiy institut ekonomiki stroitel'stva, Moskva (for
 Demidova).

APARIN, N.; PEREKALINA, N.; KHALETSKAYA, T.

Problems of the over-all mechanization and electrification of agriculture. Vest.Mosk.un.Ser.8: Ekon., filos. 15 no.3:93-97 My-Je '60.

(Agricultural machinery)
(Electricity in agriculture)

(MIRA 13:6)

TIMOFEEVA, L.A.; APARIN, G.P.

Study of pasteurellosis epizootia among marmots in eastern Mongolia. From "Materialy po gryzunam." Number 4, 1951. V.V. Kucheruk, V.A. Riutin, T.K. Dunaeva. Reviewed by L.A. Timofeeva, G.P. Aparin. Izv.Irk.gos.nauch.-issl.prirodoochun.inst. 16:253-254 '57. (MIRA 13:7)

(MAMMALS AS CARRIERS OF DISEASE)
(MONGOLIA--MARMOTS)

VLASOV, A.Ya.; APARIN, V.P.

Paleomagnetism of the Late Pre-Cambrian based on data obtained by studying Sinian sediments in the Yenisey Ridge. Izv. AN SSSR. Ser. geofiz. no.3:451-454 Mr '63. (MIRA 16:3)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR.
(Yenisey Ridge—Rocks, Sedimentary—Magnetic properties)

APARIN, V.P.; VLASOV, A. Ya.

Boundary of Devonian and Carboniferous according to paleo-
magnetic data. Izv. AN SSSR Ser. geol. 30 no.1:130-133 Ja'65
(MIRA 18:2)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR, Krasnoyarsk.

APARINA, K.M., inzh. . red.; SHERSTNEVA, N.V., tekhn.red.

[Changes in and additions to pt.2 of "Construction norms and regulations" (SNiP); as of July 1, 1960] Sbornik dopolnenii i izmenenii k II chasti stroitel'nykh norm i pravil (SNiP). Po sostoiianiiu na 1 iulia 1960 g. Moskva, Gos.isd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 135 p.

(MIRA 13:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Construction industry)

ACCESSION NR: AP4041679

S/0153/64/007/002/0184/0188

AUTHOR: Stepanova, O. S., Zakharov, M. S., Trushina, L. F., Aparina, V. I.

TITLE: Investigation of intermetallic compounds of gallium and germanium with copper and of gold with cadmium by the accumulated mercury polarographic method

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 7, no. 2, 1964, 184-188

TOPIC TAGS: gallium copper intermetallic compound, germanium copper intermetallic compound, gold cadmium intermetallic compound, CdAu, GaCu, GeCu, polarography, accumulated mercury electrode, stationary mercury electrode, solubility product

ABSTRACT: Intermetallic compounds of Ga and Cu, Ge and Cu, and Cd and Au were studied to determine their composition. Type 7-77-4b polarograph with an electrolyser, which was described by A.G. Stromberg, M.S. Zakharov, L.F. Zaichko (Zavodsk. laboratoriya, 27, 517 (1961)), was used in the investigation. The following electrolytes were used: for Ga-Cu, 0.1M KCl + 0.1M sodium salicylate;

Cord 1/3

ACCESSION NR: AP4041679

for Ge-Cu, 0.2M Na_2CO_3 + 0.025M complexon III; and for Au-Cd, 0.1M $(\text{NH}_4)_2\text{SO}_4$. The Cd, Ga and Ge concentrations were of the order of 10^{-4}mol/l . The anodic peaks for Cd, Ga and Ge disappeared when $[\text{Au}] : [\text{Cd}] = 1$, $[\text{Cu}] : [\text{Ga}] = 1$ and $[\text{Cu}] : [\text{Ge}] = 3$, respectively, indicating the intermetallic compounds CdAu, GaCu and GeCu. The solubility product of GaCu and GeCu, in mercury was determined (2×10^{-6} and $8.4 \times 10^{-13}\text{gm. at.}^2$)¹⁻², respectively) by calculations described by A.G. Stromberg, V.E. Gorodov*kh (Zh. neorgan. khimii, 8, 2355 (1963)). The solubility product of CdAu could not be calculated since the potential of the Au anodic peak is higher than that of the mercury solution. The maximum concentrations of Ga and Cu and of Ge and Cu ions which do not form intermetallic compounds in mercury and which therefore can be determined without introducing errors under given analytical conditions were determined. A greater concentration of these ions can be counteracted by decreasing electrolysis time or increasing the volume of mercury. "In conclusion I thank Prof. A.G. Stromberg for valuable advice in conducting and evaluating the work." Orig. art. has: 5 equations, 1 figure and 2 tables.

Card 2/3

ACCESSION NR: AP4041679

ASSOCIATION: Kafedra fizicheskoy i kolloidnoy khimii, Tomskiy politekhnicheskii institut im. S. M. Kirova (Department of Physical and Colloidal Chemistry, Tomsk Polytechnic Institute)

SUBMITTED: 23Jul63

ENCL: 00

OTHER: 004

SUB CODE: IC, OP

KR REF SOV: 009

Cord 3/3

APARISI, R.

APARISI, R. --"Concentration of Solar Energy in Heliotechnical Buildings."
*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher
Educational Institutions) Iss. Sci USSR, Paper Inst. Inst. V. M. Koshizhnevskiy,
Moscow, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Technical Sciences

77-105, A 5

Subject : USSR/Heat Engineering AID P - 4425

Card 1/1 Pub. 110-a - 5/13

Authors : Baum, V. A., Dr. Tech. Sci., R. R. Aparisi and B. A. Garf, Kands. of Tech. Sci. Power Institute of the USSR Academy of Sciences.

Title : Solar installations with large capacities.

Periodical : Teploenergetika, 6, 31-39, Je 1956

Abstract : Research made on the feasibility of building solar thermal plants in sunny regions of the USSR is reported. The design and output of solar-radiated energy is discussed. A mathematical analysis computing energy losses is given. A table summarizes data in megacalories per hour on the boiler surface. Ten diagrams. Four Russian references, 1935-1956.

Institution : None

Submitted : No date

Use of Solar Energy (Cont.)

Call Nr: AF 1133946

COVERAGE: The work is a collection of articles on various subjects dealing with solar energy. The book deals with Russian contributions. For bibliographic references and personalities see the Table of Contents.

TABLE OF CONTENTS

Foreword: The Heliotechnical Laboratory of the Institute of Power Engineering im. G. M. Krzhyzhanovskiy, Academy of Sciences, has for many years been conducting research on the use of solar energy, the design of new solar installations, and the most practical uses for solar energy in many regions. The foreword, which gives a running commentary on each article published in the book, points out that, with the exception of Veynberg, V. B. and Yaroslavtsev, I. P.; all authors are staff members of the Heliotechnical Laboratory of the Institute of Power Engineering.

3

Card 2/8

Use of Solar Energy (Cont.)

Call Nr: AF 1133946

Veynberg, V. B. Spectral Characteristics of Sun Radiation
Receivers.

41

There are 14 references, 11 of which are USSR, 2 English, and 1 a translation from English; 3 figures and 2 tables are included. The personalities mentioned are Lazarev, D.N., and Kuznetsov, N. P.

Garf, B. A., Borozdina, M. S., Rekant, N. B. Study of Reflecting
Surfaces of Solar Installations

49

Of a total of 6 references, 4 are USSR, 1 English, 1 Japanese. There are 6 figures and 8 tables. The personalities mentioned are: Savinov, Yanishevskiy, and Gurevich; the facilities referred to are: the Chemical Laboratory of the Plant Im. Yablochkov, the Glass Works of the Konstantinovskiy Plant, the Glass Manufacturing Plant in Proletarsk (Voroshilovgradskaya o.), the Glass Works in Tallinn (Eston-skaya SSR), and the Leningrad Polytechnic Institute.

Garf, B. A. Rotation Mechanisms of Mobile Solar Installations

62

There are no references; 26 figures are included.

Card 4/8

Use of Solar Energy (Cont.)

Call Nr: AF 1133946

Brdlik, P. M. Testing a Solar Refrigerator 118

The All-Union Scientific Research Institute of the Refrigerating Industry is mentioned. There are no references; 2 figures are included.

Shchegolev, D. M. Heating Buildings by Means of Solar Energy 124

Of a total of 10 references, 4 are USSR, 6 English.

Brdlik, P. M. Testing and Rating Solar Distillers 136

Of a total of 8 references, 5 are USSR, 2 English, 1 German; 10 figures and 3 tables are included.

Aparisi, R. R. Experimental Installation Generating High Temperatures 151

Of a total of 6 references, 1 is USSR, 2 are French, 1 English, 1 a translation from English, 1 a translation from German, 14 figures are included.

Card 6/8

Use of Solar Energy (Cont.)

Call Nr: AF 113946

Markov, G. I. Coefficient of Darkening of Direct Solar Radiation by the Glass Cover of a Helio Receiver and the Quantity of Direct Solar Radiation Falling on the Receiver

210

All 4 references are USSR, 3 figures are included.

Poyarkov, S. G. Technical and Economic Indicators of Solar Installations

214

There are no references; 11 tables are included.

Ismailova, A. A. Possibilities of Utilizing Solar Energy for Fruit and Vegetable Drying.

All 5 references are USSR; 12 figures are included.

Card 8/8

APARISI, R.R.; BAUM, V.A.; GARP, B.A.

High power solar furnaces. Ispol'soln.energ. no. 2. 1977.

(MIRA 10:11)

(Solar energy)

APARISI, R.R.

Experimental solar apparatus for obtaining high temperatures.
Ispol'soln.energ. no.1:151-162 '57. (MIRA 10:11)
(Solar energy)

3(1)

PHASE I BOOK EXPLOITATION

SOV/2677

Aparisi, Rafael' Rafaelevich and Boris Arnol'dovich Garf

Ispol'zovaniye solnechnoy energii (Utilization of Solar Energy)
Moscow, Izd-vo AN SSSR, 1958. 58 p. (Series: Akademiya
nauk SSSR. Nauchno-populyarnaya seriya) 15,000 copies
printed.

Ed.: V.A. Baum; Ed. of Publishing House: Ye. M. Klyaus;
Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for general readers interested
in the problem of the uses of solar energy.

COVERAGE: This booklet discusses in popular form the history
and present status of the attempts to use the Sun's immense
energy in industry and in the household. The "trapping" of
solar energy in "solar furnaces" and other devices is
described with some reference to the utilization of solar
energy in rocket techniques. The book is illustrated with
35 figures and devices. No personalities are mentioned.

Card 1/2

APARISI, Rafael' Rafaelevich; GARF, Boris Arnol'dovich; BAUM, V.A.,
otv. red.; KLYAUS, Ye.M., red. izd-va; RYLINA, Yu.V., tekhn.
red.

[Using solar energy]Ispol'zovanie solnechnoi energii. Moskva,
Izd-vo Akad. nauk SSSR, 1958. (MIRA 16:1)
(Solar energy)

FOR/408

Address: 2500, Georgetown, Guyana
Telephone: 2500, Guyana
Fax: 2500, Guyana
E-mail: 2500, Guyana
Web: 2500, Guyana
Notes: 2500, Guyana
References: 2500, Guyana
Comments: 2500, Guyana
Status: 2500, Guyana
Date: 2500, Guyana
Page: 2500, Guyana

Spokane Trading Agency: Aberdeen and the South. Foreign: Security Service: London: C.M. Trade: Administration.

Acad. Ed.: V.A. Baul, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G.B. Sorokina; Tech. Ed.: J.S. Sorokina.

FEATURE: The publication is intended for power engineers and economists interested in the industrial utilization of solar energy.

COMMENT: This collection of 19 articles is a continuation of an earlier work published under the same title in 1967. The articles present results of investigations conducted in the USSR during the last three years at the laboratory or by one of its former graduates and aimed at the development of a new type of solar battery and aimed at the development of a new type of solar battery. The articles are arranged in two groups: the first group is devoted to the development of a new type of solar battery and the second group is devoted to the development of a new type of solar battery. The articles are arranged in two groups: the first group is devoted to the development of a new type of solar battery and the second group is devoted to the development of a new type of solar battery. The articles are arranged in two groups: the first group is devoted to the development of a new type of solar battery and the second group is devoted to the development of a new type of solar battery.

and Vol. 1, Form 1000. Answers and instructions for
the 1960 and 1961 forms are in the 1960 Form 1000.

4. W.B. APPROXIMATE METHOD FOR DETERMINING THE EFFICIENCY OF THE
OPERATIONS OF A SOCIAL POWER SYSTEM

Forrestor, E. D. Some Problems in the Economics of Solar Power
Technology

and C. B. Mowbray, Investigation of the conductor

^A Ayari, R., and D. J. Taylor. Optimal Geometry of Solar Simulators for Thermal Analysis

Investigation of the Thermal Conductivity of Polymers

Card 1/6

Obs. T.A. Particles Characterized at November 7th Solar Flare

13. *Abstract.* Effect of the selective characteristics of absorbing surface on the efficiency of a solar engine

U.S. and U.S. Army, and U.S. Navy. On the positive side, it is the only of Defense Systems in Solar Power Plant

Polymerization of α -Methylstyrene and β -Methylstyrene by Anionic Polymerization

9. Determining the Optimum Angle of Inclination is Based on the Following: With Temperature or Fuel Density

Methods for Determining the Efficiency of Infrared Emission of Solar Energy

UNIT 8: ENERGY BASES OF SOLAR THERMAL POWER SYSTEMS

22

3/4/68
2/6/68

S/030/60/000/010/006/016
B021/B05P

AUTHORS: Aparisi, R. R., Candidate of Technical Sciences,
Strel'tsova, A. A., Candidate of Chemical Sciences,
Garf, B. A., Candidate of Technical Sciences

TITLE: Solar Installation for the Photosynthesis² of Caprolactam¹

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 10, pp. 67-68

TEXT: The synthesis of caprolactam, the initial product for synthetic caprone, can be carried out by photochemical nitrosation of cyclohexane,¹⁵ which shortens the technological process and reduces the cost of caprone. Photosynthesis proceeds under the action of the visible part of the spectrum, the yield being directly dependent on the irradiation intensity. Experiments showed that apart from artificial rays, solar radiation can also be utilized for this chemical reaction. Such a solar installation was developed in 1955 by the Energeticheskiy institut im. G. M. Krzhizhanovskogo Akademii nauk SSSR (Power Engineering Institute imeni G. M. Krzhizhanovskiy of the Academy of Sciences USSR) jointly with the Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy

Card 1/2

Solar Installation for the Photosynthesis of
Caprolactam

S/030/60/000/010/006/018
B021/B058

promyshlennosti i organicheskogo sinteza (GIAP) (State Scientific Research and Planning Institute of the Nitrogen Industry and of the Organic Synthesis (GIAP)). From 1958 to 1959 further studies were conducted jointly with the Institut organicheskoy khimii Akademii nauk Armyanskoy SSR (Institute of Organic Chemistry of the Academy of Sciences Armyanskaya SSR) at Yerevan. The new installation permitted to increase the radiation intensity by 3 to 4 times through radiation concentration by means of automatically guided mirrors. An experimental installation was established by the Power Engineering Institute jointly with the GIAP, which is to be installed at the Kirovakanskiy khimkombinat (Kirovakan Chemical Kombinat). There is 1 figure. ✓

Card 2/2

S/173/60/013/001/004/005
A104/A029

AUTHORS: Shermazanyan, Ya.T. and Aparisi, R.R.

TITLE: Elements of the Automatic Tracking Equipment of a Solar Thermal Plant (STS)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya tekhnicheskikh nauk, 1960, Vol. 13, No. 1, pp. 57-70

TEXT: The plant is based on an azimuth zenith apparatus coupled with automatic control equipment. The heating problem of the steam boiler by 1,293 reflecting mirrors can be solved by two basically different systems: direct individual automatic sun tracking of the solar-heat units and precalculated sun tracking of these units. The automatic equipment is exposed to wind, rain, snow and temperatures varying between -30°C to $+40^{\circ}\text{C}$, etc. Its cost is 10 - 12 % of the total capital investment. The above-mentioned relay systems passed laboratory and practical tests performed in Armenia on the area, where the first solar thermal plant is to be erected. The non-relay systems just being tested present no difficulties. The movement of the reflecting mirror shown is expressed in several equations. The great differences between maximum and minimum values complicate

Card 1/2

S/173/60/013/001/004/005
A104/A029

Elements of the Automatic Tracking Equipment of a Solar Thermal Plant (ITS)

the operation of the solar-heat units. Among photoelectric pickups used in solar thermal plants the pickup equipped with a sensitive $\Phi C - K 2$ (FS-K2) calcium photo-resistor (Refs. 5 and 6) showed the best results. The distribution of the solar energy contained in the sun beam is irregular. There are optically and directly absorbing sun beam pickups. The first type is used for the control of azimuthal and zenith elevation adjustment of the reflecting mirrors and the second type for the control of the azimuthal movement of the reflecting mirror trolley around the boiler. Recorded data of the three directional swiveling type ensured a $\pm 2'$ correct focusing of the sun beam. There are 10 figures and 7 Soviet references. ✓

ASSOCIATION: Energeticheskiy Institut im. G.M. Krzhizhanovskogo AN SSSR (Institute of Power Engineering im. G.M. Krzhizhanovskiy of the AS USSR) and Institut energetiki i gidravliki AN Armyanskoy SSR (Institute of Power Engineering and Hydraulics of the AS of the Armyanskaya SSR)

SUBMITTED: August 12, 1959

Card 2/2

S/194/62/000/006/087/232
D413/D308

RG 1510
AUTHOR: Aparisi, R.R.

TITLE: Reflector mirrors for semiconductor solar power generators

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-3-58 p (V sb. "Teploenergetika" no. 3, M., AN SSSR, 1961, 13-20)

TEXT: If paraboloidal mirrors are used as wide-angle concentrators of solar radiation, they give an uneven distribution of light flux falling on the surface of the solar cell. This unevenness of energy distribution reduces the output of electrical power from semiconductor solar cells. The paper sets out a design for a faceted mirror giving less concentration of energy than a paraboloidal mirror of the same diameter and focal length. Reflectors with a continuous surface are also used for equalizing the thermal flux over part of the focal image. Diagrams are given for two types of continuous reflector, concentrating the rays and dispersing the rays, with the energy distribution graphs for them. The calculation of
Card 1/2

Reflector mirrors for semiconductor ... S/194/62/000/006/087/232
D413/D308

the generatrix for a continuous reflector is given, and the form of its surface is determined. 3 references. [Abstracter's note: Complete translation.]

Card 2/2

L 30079-66 EWT(1)
ACC NR: APG020630 SOURCE CODE: UR/0377/65/000/005/0005/0010

AUTHOR: Akchurin, R. Kh.; Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I.; 30
Shatov, N. I.; ~~Shchegolev, D. N.~~ (Deceased) B

ORG: State Scientific-Research Power Engineering Institute im. G. M. Krzhizhanovskiy
(Gosudarstvennyy nauchno-issledovatel'skiy energeticheskiy institut)

TITLE: Two-mirror solar stand of the ENIN

SOURCE: Geliotekhnika, no. 5, 1965, 5-10

TOPIC TAGS: photoelectric detection equipment, actinometry

ABSTRACT: A combined two-mirror heliostat-containing solar stand was constructed in 1961-1962 at the testing area of the ENIN. The paper gives a detailed engineering description of the stand as a whole and of its various components (the mirrors, heliostat, reducing gears, photoelectric tracking sensors, vacuum system, and actinometric mechanism). The stand is presently in satisfactory operation. [The specific uses and results are not given.] Orig. art. has: 7 figures. [JPRS]

SUB CODE: 03, 09 / SUBM DATE: 13Jan65 / ORIG REF: 003

Card 1/1 20

L 36351-66 EWT(1)
ACC NR: AF6017582

SOURCE CODE: UR/0371/65/000/006/00271

(A)

AUTHOR: Aparisi, R. R.; Kolos, Ya. G.; Teplyakov, D. I.

ORG: State Scientific Research Power Engineering Institute im. G. M. Krzhizhanovskiy
(Gosudarstvennyy n.-i. energeticheskiy institut)

TITLE: Calorimetric investigation of high temperature solar installations

SOURCE: Geliotekhnika, no. 6, 1965, 25-31

TOPIC TAGS: solar furnace, calorimetry, solar power plant

ABSTRACT: The authors point out first that calorimetry under natural conditions is one of the best methods of experimentally investigating the radiant heat exchange in solar-power installations with mirror concentrators. The advantages of this method over others are outlined. This is followed by description of several types of calorimeters developed and used at ENIN, with emphasis on a water calorimeter designed for calorimetry of the focal image of a mirror with direct tracking of the sun (Fig. 1). Various modifications of these calorimeters and the differences in their efficiency and productivity are briefly discussed. The effect of the calorimeter diaphragm diameter on the measured radiant flux is estimated. Orig. art. has; 5 figures and 1 formula.

Card 1/2

AKR-777, 7.

Disertatsiya: -- "On the Rational Properties of Polynomials in Integral Coefficients and Applications of Functions to Problems of Geometry,"
Soviet Phys-Math Sci, Moscow Order of Lenin State Univ. V. I. Lebedev, 16
Jan 51. (Vestnik Moskva, Moscow, 16 Jan 51)

SO: Sov 317, 23 Dec. 1951

APARNEVA, D.M.

The ER-2 automatic labeling machine for glass containers.
Kons.i ov.prom. 17 no.7:23-24 JI '62. (MIRA 15:6)

1. Adygeyskiy konservnyy kombinat.
(Labeling machines)

ALEKSEYEV, M.A.; APAROVA, A.A.

Peculiarities of the cutaneogalvanic response to weak stimulation
in man. Trudy fiziol. inst. 4:25-36 '49. (MLRA 9:5)
(REFLEXES)

STEPHEN, S.I. APAROVICH, L.M.

Synthesis of propionic acid peroxide esters. Zhur. org. khim.
1 no. 12:1218-1220 JI '65. (MIRA 18:11)

1. L'vovskiy politekhnicheskiy institut.

SOV/137-58-11-22431

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 84 (USSR)

AUTHOR: Aparovich, S. A.

TITLE: A Progressive Technology for Forging the Middle Link of a Detachable Chain for a Scraper Conveyor (Progressivnaya tekhnologiya shtampovki srednego zvena razbornoy tsepi skrebkovogo konveyera)

PERIODICAL: Tekhnol. ugol'n. mashinostroyeniya, 1958, Nr 1, pp 11-13

ABSTRACT: Complex experimental and research work results in development by the VNIPTUGLEMASH Institute of a new technology for forging the middle link. A GKM-800 is used to upset a ring with sockets for two couplings. Then a 250-t friction press bends the ring, simultaneously sizing it for all outside dimensions. Tensile testing and macroscopic and microscopic investigations show middle links made by this technology to be more dependable in mine usage. Moreover, 0.3 kg of metal is saved on each link, and labor required for production is reduced.

M. Ts.

Card 1/1

Aparsheva, M. I.

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Ref Zhur - Khimiya, No 4, 1957, 12054

Author : Kostromin A.I., Aparsheva M.I.

Title : Amperometric Determination of Cadmium

Orig Pub : Zavod. laboratoriya, 1956, 22, No 5, 544-545

Abstract : For a direct amperometric titration (Hg-drop electrode) of Cd^{2+} ions with anthranilic acid it is necessary that 40 ml of the solution being titrated contain 10-30 mg Cd, pH 5.5-6.5, concentration of ethyl alcohol 20-25%. Titration of Cu^{2+} and Pb^{2+} ions with Na-anthranilate is successfully effected at pH 3.0-6.0. Consecutive titration of Cu^{2+} and Cd^{2+} ions with Na-anthranilate is described. On determination of Pb^{2+} and Cd^{2+} , first the Pb^{2+} ion is titrated with a solution of Na_2SO_4 , and then Cd^{2+} with a solution of Na-anthranilate.

Card 1/1

KRESHKOV, A.P.; BORK, V.A.; APARSHEVA, M.I.

Amperometric titration of alkylchlorosilanes in methanol-benzene
and acetic acid media. Zhur.anal.khim. 18 no.10:1149-1154 0
'63. (MIRA 16:12)

1. Moskovskiy khimikoptekhnologicheskii institut imeni D.I.
Mendeleeva.

KRESHKOV, A.P.; BORK, V.A.; APARSHKVA, M.I.

Amperometric titration of unsaturated organosilicon compounds
with a solution of iodine chloride in nonaqueous media. Izv.
vys. ucheb. zav., khim. i khim. tekhn. 7 no.5:742-746 '64
(MIRA 18:1)

1. Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta imeni D.I. Mendeleeva.

KRESHKOV, A.P.; BOBK, V.A.; APARSEVA, M.I.

Amperometric titration of unsaturated organosilicon compounds in
nonaqueous media. Zav. lab. 30 no.10:1203-1211 '64. (UTRA 18:4)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni Mendeleeva.

KRESHEKOV, A.P.; DORE, V.A.; APARSHEVA, M.I.

Quantitative determination of double bonds in organosilicon compounds
containing silicon hydride groups. Plast. massy no.4:63-65 '65.
(MIRA 18:6)

KUPCHENKO, A.P.; BOBA, V.A.; GILDEROVA, I.A.; and others. ...

Amperometric and visual titration of chlorides, bromides, and
thiocyanates with cadmium nitrate in anhydrous acetic acid.
Zhur. anal. khim. 20 no.8:2008-2013, 1975. (UFA 18:7)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleeva.

APARSHIN, A.

Possibilities of an intensified specialization. Inform. biul.
VDNKH no.10:3-4 0 '64 (MIRA 18:1)

1. Direktor Batayskogo otkormochnogo soveta narodnogo khoz-
stva.

80V/123-59-16-65532

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 266 (USSR)

AUTHORS: Apartsev, A.S., Kann, A.V., Kontorovich, S.O., Leyman, P.P.

TITLE: A New Technology of Constructing Delivery Pipelines of Semi-Metallic Ferro-Concrete Tubes

PERIODICAL: Str-vo truboprovodov, 1958, Nr 11, 13 - 16

ABSTRACT: The economic and operational superiority of employing semi-metallic tubes (T) is stated, consisting of an outer pre-strained reinforced concrete shell and a thin-walled metallic inner sleeve, which increases the service life of the T. The Leningrad "Barrikady" Plant finished the tests with a pilot KZhB-67 machine for the manufacture of pressureless reinforced concrete T of 900 mm in diameter directly in the ditch. The technology of constructing delivery pipelines, worked out by the State Institute for the Designing of Special Enterprises for the Gas Industry "Giprospetsgaz", of semi-metallic T by the method of continuous molding is described. The expediency of applying shells of pre-strained reinforced

Card 1/2

Card 2/2

MIKHALEV, Ivan Ivanovich; KOLOBOVA, Zoya Nikolayevna; BATIZAT,
Viktor Panteleyevich; APARTSEVA, Ye.L., inzh., retsen-
zent; KOLOSOV, M.A., inzh., red.

[Technology of the adhesive bonding of metals] Tekhnolo-
giya skleivaniia metallov. Moskva, Mashinostroenie,
1965. 278 p. (MIRA 18:7)

APR 1957, 16.

POLYMERIZATION OF BUTADIENE IN AN ALTERNATING ELECTRICAL FIELD. N. Apat'eva, P. Zolotarev and E. Shikov. *Rubber and Rubber* (U. S. S. R.) 1957, No. 7-8, 37 R.-A description

34

RESEARCH LITERATURE CLASSIFICATION

Homocoupling reaction. XII. Preparation of the chloride of 1,5-naphthalenedisulfonic acid from its sodium salt
 A. A. Noyeskov and N. V. Apas'eva. *Zhur. Obshch. Khim.* (J. Gen. Chem.) 19, 1570-72 (1949); cf. *C. A.* 43, 2178c. Heating 1,5-C₁₀H₆SO₃Na₂ with 10 mols. ClSO₃H 2 hrs. at temps. from 10° to 114° showed the max. yield of the disulfonyl chloride to occur at 96°, when yields of 93% are reached, the yield declines sharply above 100° (46% at 114°); the product, m. 182°, is also most pure under these conditions. The yield loss is caused by incipient trisulfonation, as shown by the formation of a trisulfonyl chloride (shown by hydrolysis and Cl detn.) upon heating the reaction mixt. 10 hrs. to 114°; this product, m. 145°, appears to be almost pure 1,3,5-isomer. Study of the time factor at 10°, 65°, and 100° showed that at 10° a condition approximating equil. is reached in 200-500 hrs. at 80-91% yield; at 65° this takes place in 14 hrs., while at 100° the above mentioned max. is reached in about 2 hrs., when an 84% yield may be attained. Similarly, excess ClSO₃H (up to 10 ml./g.) at 65° gives almost 100% conversion in 6-8 hrs. The use of dry salt is imperative, as a product with 1.55% moisture gives yields lowered by 10-15%; drying must be done 2-3 hrs. at 200°. Neither NaCl nor Na₂SO₄ admixts. (up to 20%) affect the yield or quality of the product. The disulfonyl chloride is readily hydrolyzed only by boiling H₂O, and almost as rapidly by hot 5% H₂SO₄ (small samples require about 1 hr.).
 G. M. Kosolapoff

Chem Organic Chem., Ivanovo State Ind. Inst

CA

APHY (EVN, R.T.

10

Sulfonation reaction. XII The preparation of the
chloride of 1,3-naphthalenedisulfonic acid from its sodium
salt A. A. Snyshkov and N. V. Apat'eva (Leningrad State
Med. Inst.) J. Gen. Chem. U.S.S.R. 19, 1540 91(1949)
(Russ. translation).--See C.A. 44, 10821. B. L. M.

1957

(A)

10

Sulfonation reaction. XIV. Preparation of sulfonyl chlorides from sodium sulfonates. A. A. Noyakov and N. A. Arutyunova (Ivanovsk. Chem. Technol. Inst.), *Zh. Obshch. Khim.* (J. Gen. Chem.) 20, 1818 (1950); *ibid.* 21, 44, (1951); 22, 10074. Use of ClSO_3H permits the prepn. of sulfonyl chlorides in high yield from the Na sulfonates of aromatic compounds, contg. Me, COCH_3 , OH, NO_2 , or SO_3H groups. Generally the ease of prepn. parallels the ease of sulfonation of the respective nuclei. Heating 4 ml. ClSO_3H with 2 g. PhSO_3Na 2 hrs. at 85° (100° or 85° is preferable) yields (m.p.) PhSO_2Cl , m. $12-13.5^\circ$ (a higher temp. gives a product m. 11°), isolated by pouring on ice and drying in vacuo ; crystals from petr. ether gives the pure substance, m. 10.3° . *p*- $\text{MeC}_6\text{H}_4\text{SO}_3\text{Na}$ is best prepd. at 16° , 92.4° , of a product m. $64-65^\circ$ (being obtained in 2 hrs.); at 0° the product is pure and m. 68° . *p*- $\text{MeC}_6\text{H}_4\text{SO}_3\text{Na}$ gives 97.5% chloride, m. 33.5° , after 2 hrs. at 100° or 20 hrs. at 15° . Na sulfosalicylate added to ClSO_3H at $5-7^\circ$ gives the chloride, m. 172° , in 71% yield after 24 hrs. at 14° ; 1 hr. at 63° gives 81% of a product, m. 167° , while 80% of a product m. 165° is obtained from 20 ml. ClSO_3H with 1 g. Na salt. *1*- and *2*- $\text{C}_6\text{H}_4\text{SO}_3\text{Cl}$, m. $96-113^\circ$, form even at -10° from *2*- $\text{C}_6\text{H}_4\text{SO}_3\text{Na}$, although the *1*-isomer, m. 96° , is formed in 40% yield after 2 hrs. at $12-15^\circ$. *m*- $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_3\text{Cl}$, m. 63° , forms in 93% yield after 2 hrs. at 85° or in 67% yield in 60 hrs. at 15° . Similarly, *m*- $\text{C}_6\text{H}_4\text{SO}_3\text{Cl}$, m. 101° , forms from the *di*-Na salt, best either in 2 hrs. at 100° (57.3°) or in 6 hrs. at 65° (46.2°); lower temps. give a less pure product, unless the reaction is run longer, the highest yield (63.8%) is obtained in 2 hrs. at 85° . *1,3,5*-Naphthalenesulfonyl chloride, m. 144.5° , forms best (86%) after 2 hrs. at 105° . All the salts are carefully dried to free use and freshly distd. ClSO_3H is used. G. M. K.

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APASHEV, M. D.

"Dynamics of Combustion and Calculation of the Operational Process in an Engine With Forced Ignition." Dr Tech Sci, Inst of Machine Science, Acad Sci USSR, Moscow, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

26(1.4)

PHASE I BOOK EXPLOITATION 307/2396

Avadamiya nauk 3338. Laboratoriya dvigatelay

Teoriya, konstruktivnaya, raschet i ispytaniya dvigatelay vnutren-
nego sgoraniya (Theory, Construction, Design and Testing of
Internal Combustion Engines) Moscow, Ind.-vostok 8338. 271.
209 p. (Series: Ita; Trudy, v. 3) Errata slip inserted.
9,000 copies printed.

M. of Publishing House: V. M. Klementev; Tech. Ed.: A. A.
Tsvetkovskiy; Editorial Board: N. D. Apashov, Doctor of Tech-
nical Sciences, K. O. Yevgenyev, V. A. Lur'y, Candidate of Tech-
nical Sciences, and Yu. B. Sviridov, Candidate of Tech-
nical Sciences.

PREFACE: This book is intended for technical personnel working
with internal combustion engines.

COVERAGE: This collection of scientific papers deals with inter-
nal combustion engines. The book is divided into three parts.
The first part deals with gas turbines, the second with recip-
rocating internal combustion engines, and the third with
methods and equipment for investigations. No personalities are
mentioned. References follow each article.

Author: N.D. Heat Capacity of Industrial Gases
This section discusses the dependence of heat capacities of
gases on temperature and pressure. On the basis of the prin-
ciples of theoretical thermodynamics he derives equations for
calculating correction values for heat capacities at high tem-
perature and pressure. 65

Sviridov, Yu.B. Effect of Combustion Process Parameters on the
Indicated Characteristics of an Engine
The author compares indicated diagrams and discusses theoret-
ical efficiencies of an internal cycle of diesel and spark-ignition
engines. He also presents methods for calculating combustion
losses and determining the most efficient spread of the combus-
tion process in a cycle. 85

Chernitskiy, A.V. [Candidate of Technical Sciences]. Some
Characteristics of Carburetor-engine Charging
In a theoretical investigation the author compares the charging
process of a carburetor engine with the charging process of an
engine of identical construction, differing only in that it
has a fuel-injection system. 108

Shargov, I.A. Standardization of Automotive Engines Using
Different Types of Fuel
The purpose of this article is to establish bases for the
standardization of gasoline, diesel, and gas automotive
engines. Parameters of Soviet and non-Soviet automotive en-
gines are investigated. 116

Stetskin, B.D., and N.D. Apashov. A Method of Combined Investi-
gation of Flame Propagation and Pressure Change in a Spark-Ignition
Engine
The authors describe a method and the results of an experimen-
tal investigation of the variation of pressure and flame propaga-
tion in the engine cylinder during combustion. The investigation
was conducted at the Engine Laboratory of the Academy of
Sciences, USSR. The results show that at the moment of maxi-
mum pressure in the cylinder the complete charge was ignited. 135

Sviridov, Yu.B. Thermodynamic Analysis of the Combustion Process
in a Spark-Ignition Engine
The author derives the thermodynamic equation of the dynamics
of combustion during propagation of the flame over the working
chamber and describes the temperature field in the combustion
chamber and its variation during the combustion process. He
also presents a mathematical method and an example for calcu-
lating various parameters of the indicator diagram. 164

APASHEV, N.D., doktor tekhnicheskikh nauk.

Heat capacity of industrial gases. Trudy Lab.dvig. no.3:65-84
'57. (Gas as fuel) (Heat capacity) (MLRA 10:7)

STECHKIN, B.S., akademik; APASHEV, M.D., doktor tekhnicheskikh nauk.

~~Trudy Lab.dvig.~~
Combined investigation of flame propagation and changes in
pressure in engines with spark ignition. Trudy Lab.dvig.
no.3:155-163 '57. (MIRA 10:7)
(Gas and oil engines)

KAREL'SKIKH, D.K., prof.; ~~VPASHYEV, M.D.~~, kand.tekhn.nauk; BARSKIY, I.B.,
kand.tekhn.nauk; ZAYCHIK, G.I., doktor tekhn.nauk, retsentsent;
AMOKHIN, V.I., kand.tekhn.nauk, retsentsent; ZARETSKIY, B.I.,
inzh., red.; POPOVA, S.M., tekhn.red.

[Theory, design, and engineering analysis of tractors] Teoriia,
konstruktsiia i raschet traktorov. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit. lit-ry. [Pt.3. Theory and analysis of
tractor chassis] Teoriia i raschet shassi traktorov. Pod obshchey
red. D.K.Karel'skikh. 1950. 144 p. (MIRA 11:12)
(Tractors)

300(1.2.2)

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808/2545

Antwoord: Het is niet juist. Het is niet mogelijk.

[illegible]

Itai Study, v. 4) Error slip inserted. 3,000 copies printed.

Ed. of Publishing House: V.L. Klement'ev, Tech. Sci.; T.A. Pavlovskaya
 M.I. Kuznetsov, M.D. Sokolov, Doctor of Technical Sciences, M.S.
 Kuznetsov, Candidate of Technical Sciences, Yu. N. Gurylov,
 Doctor of Technical Sciences, N.Z. Krasovskiy, Engineer, and
 L.A. Yergulov, Engineer.

REMARK: This book is intended for students of scientific research facilities, students of schools of higher education (university), design engineers, and to provide exchange of experimental information on the thermodynamics of internal combustion engines.

COMMUNIST: this collection consists of 16 articles based mainly on research work done by the author in 1955-1956. Part I is devoted to working processes in gas turbine power plants and to theoretical and experimental work connected with investigation of properties of gases. Part II contains articles on the utilization of gases in plants of gases. The collection is number 1 of the "Scientific papers of the Faculty of Sciences, The Academy of Sciences of the Czech Republic". The collection of the Faculty of Sciences, The Academy of Sciences, is numbered. The personal files are numbered. There are no references.

7. Smith, V.J. Calculating Best Exchange of Turbine Inlet Air for an Intermediate Liquid Heat Carrier

PAGE IX. INTERNAL COMBUSTION MOTOR ENGINE

1) The complete immaturation of heat transfer in engines

79

1) The complete interconnection of heat transfer in engines is not possible; the comparison of heat transferred to water in various types of engines. 2) Comparison of short strokes and long strokes shows that at the same average velocities of piston the quantity of heat transferred in a short stroke engine is 14-20 percent less. 3) Comparison of short strokes and long strokes engines shows that at the same P_{max} the losses of heat in long stroke engines are less; however, in short stroke engines the average indicator pressure and the indicator power are greater. 4) Taking into consideration that the short stroke is connected with an increase of P_{max} , while maintaining average piston velocity, it is possible to assume that the introduction of short stroke diesel will considerably facilitate the transfer of heat to the cooling water and consequently improve engine economy. There are 2 further references.

3. ~~Exhaust Valve~~ Determination of the Moment of End of Heat Transfer According to Indicator Diagram of Combustion of Fuel in a Comb and in an Engine

5

The author is concerned with alternative isoeconomic procedures in bonds and in equities. A method is indicated for precise determination of the amount of the end of best financing in a bond and in an equity which permits evaluation of the final amount of best financing in consistent tables or charts. Final evaluation according to indicator diagrams. There are 8 Soviet references.

Case 6/21

AT PASHA, M.D.

APASHEV, M.D.

Using the indicator diagram of fuel combustion in a bomb and an
engine in determining the moment of the end of heat liberation.
Trudy Lab.dvig. no.4:85-92 '58. (MIRA 12:11)
(Combustion)

APASHEV, Magomed Daniyalovich; BOGOLYUBOV, I.S., otv.red.; GONCHAROVA,
I.V., red.isd-vs; URYADOVA, G.V., tekhn.red.

[The second law of thermodynamics; lecture in the course "General
thermomechanics."] Vtoroi zakon termodinamiki; lektsiia po kursu
"Obshchaya teplotmekhanika." Moskva, Vses.soyuznyi politekhn.
in-t, 1959. 35 p. (MIRA 14:2)
(Thermodynamics)

STECHKIN, B.S., akademik, glavnyy red.; SVIRIDOV, Yu.B., zam.otv.red.;
APASHIN, M.D., red.; BRILING, M.R., red.; VASIL'YEV, B.M., red.;
VOINOV, A.N., red.; ZAGRYAZKIN, N.N., red.; GORSHKOV, O.B.,
red.isd-vz; MAKAGONOVA, I.A., tekhn.red.

[Combustion and carburetion in diesel engines; proceedings of the
scientific and technical conference organized by the Engines
Laboratory in June 1958] Sgoranie i smesseobrazovanie v dieselakh;
trudy nauchno-tekhnicheskoi konferentsii, provedennoi v iune
1958 g. Laboratorii dvigatelei. Moskva, 1960. 238 p.

(MIRA 14:2)

1. Akademiya nauk SSSR. Laboratoriya dvigateley. 2. Chlen-
korrespondent AN SSSR (for Briling). 3. Laboratoriya dvigateley
Akademii nauk SSSR (for all, except Gorshkov, Makagonova).
(Diesel engines)

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E194/E155

AUTHORS: Apashev, M.D. and Malov, R.V. (Moscow)

TITLE: The Evaporation of Single Free Droplets of Various Liquids during Small Changes in the Reynolds Criterion of a Flow Passing over the Drops

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, Nr 2, pp 185-191 (USSR)

ABSTRACT: This article describes a study of the evaporation of single free fine droplets (0.050-0.200 mm diameter) of liquid. The study was undertaken both to establish the general nature of evaporation and also to obtain experimental data for use in calculations of droplet evaporation in flows at low values of Reynolds number. The investigations were made in the Engine Laboratory of the Academy of Sciences, USSR. The operative part of the rig was a vertical elliptic heater one metre long and 30 x 30 mm cross-section. Drops were introduced from above and arrangements were made to produce a series of uniform drops which at need could range in diameter from 1.00 to 1.05 mm. By the time the drops reached the heater their speed was about 1 metre per second. As they

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E194/E155

The Evaporation of Single Free Droplets of Various Liquids during Small Changes in the Reynolds Criterion of a Flow Passing over the Drops

passed through the heater they were photographed ten times through a window by means of a special camera. From the photographs it was possible to construct curves of change of speed with time as the droplets passed the window. Numerous tests were made for each set of conditions and then the droplet diameter was calculated by means of formula (0.1). The correctness of this method of assessing the diameter was checked by measurements of relatively large drops: the differences between this and the photographic method of measurement were about 3%. It should be mentioned that A.M. Zotov, V.L. Sokolov and V.A. Segen' took part in the experimental work. The first measurements of the rate of droplet evaporation were made in 1882 by B. Sreznevskiy, who formulated the law that during evaporation the change in the drop surface is linear with time. This law is undoubtedly valid for motionless drops but there is some doubt whether it is true for drops in a flow of air: the present authors consider that it is only approximately

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